

Use Attainability Analysis

for

WBID 0470 Peddler Creek

Submitted by
SES Inc.

to

Missouri Department of Natural Resources
Water Protection Program

Date received: November 14, 2007

Field Data Sheets for Recreation Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)

Water Body Name (from USGS 7.5' quad):	Peddler Cr.
Missouri Water Body Identification (WBID) Number:	470
8 digit HUC code: 10280101	County: Gentry
Upstream Legal Description (from Table H):	T64N R31W SEC 10
Downstream Legal Description (from Table H):	T64N R31W SEC 28
Number of sites evaluated:	3
List all site numbers, listed consequently upstream to downstream: 3, 2, 1	

Site Locations Map(s): Attach a map of the entire segment with assessment sites clearly labeled.
Mark any other items that may be of interest.

II. Facility Information (list all permitted discharges to the water body segment)

Facility Name(s) and Permit Number(s): CGC Ruckman Farms MO0118451
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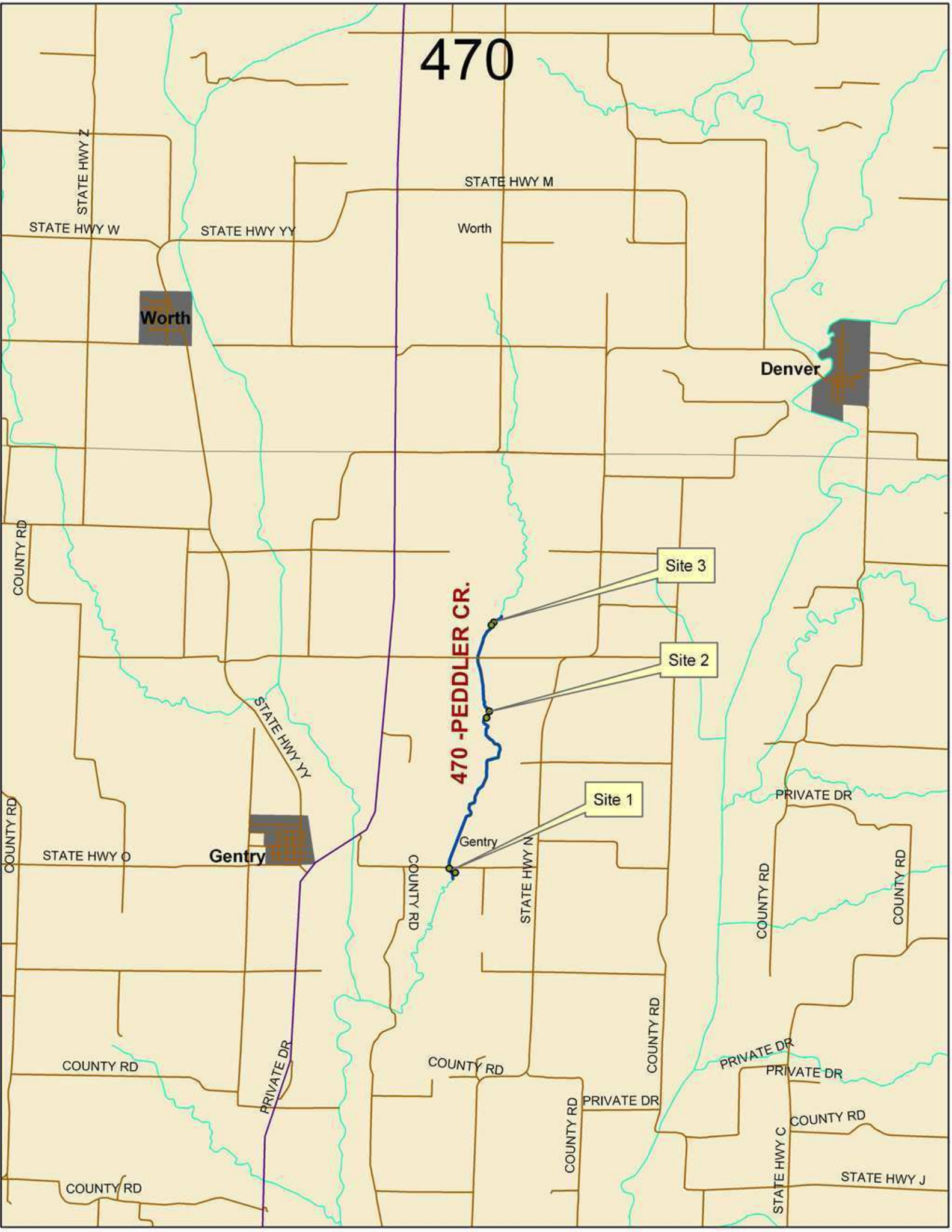
III. UAA Surveyor (please print legibly)

Name of Surveyor: Gilisa Gould	Telephone Number: 913-307-0054
Organization/Employer: SES, Inc	

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Signed: _____ **Gilisa Gould** _____ **Date:** _____ **10.04.07** _____

470



Worth

Denver

Site 3

Site 2

Site 1

470 -PEDDLER CR.

Gentry

Gentry

WBID # 470
 Site # 1

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 9.19.07 8:35am	Site Location Description (e.g. road crossing):
Personnel: Drew Dodson, Gilisa Gould	county rd 86
Current Weather Conditions: clear	Facility Name: CGC Ruckman Farms
Weather conditions for the past 10 days: no precip.	Permit Number: MO0118451
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, in Meters)			
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:
	0381622	4465193	21 feet
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:
	0381717	4465127	21 feet

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
45	downstream	46	upstream		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 470
 Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input checked="" type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:
Comments:				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: None				

Substrate:

% Cobble	% Gravel	50	% Sand	30	% Silt	20	% Mud/Clay	% Bedrock
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Aquatic Vegetation:

Banks vegetated: common grasses and forbs of the area; 70% algae in water

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 470
Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

None

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: _____ Gilisa Gould _____ Date of Survey: ____9.19.07_____

Organization: _____ SES, Inc. _____ Position: __field team leader_____

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>470</u> Site #: <u>1</u> Estimated Channel Incision: <u>1</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0381622</u> UTM Y: <u>4465193</u> +/- <u>6.4</u> (meters) 11 UTM X: <u>0381717</u> UTM Y: <u>4465127</u> +/- <u>6.4</u> (meters) Average Stream Width: <u>2.4</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Drew Dodson, Gilisa Gould</u>														Dissolved Oxygen								
														Date: <u>9.19.07</u> Time: <u>8:35am</u> Dissolved Oxygen: <u>3.6</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>16.8</u> (°C)								
Transect Cross-Section																						
01		02		03		04		05		06		07		08		09		10		11		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0.27	0.05	0.37	0.05	0.27	0.05	0.27	0.1	0.27	0.01	0.27	0.05	0.05	0.01	0.18	0.05	0.18	0.05	0.46	0.05	0.09	0.01
2	0.54	0.05	0.74	0.05	0.54	0.1	0.54	0.15	0.54	0.05	0.54	0.1	0.1	0.01	0.36	0.05	0.36	0.05	0.92	0.1	0.18	0.01
3	0.81	0.1	1.11	0.1	0.81	0.1	0.81	0.15	0.81	0.05	0.81	0.25	0.15	0.01	0.54	0.1	0.54	0.05	1.38	0.2	0.27	0.05
4	1.08	0.1	1.48	0.15	1.08	0.1	1.08	0.2	1.08	0.1	1.08	0.3	0.2	0.01	0.72	0.1	0.72	0.05	1.84	0.25	0.36	0.05
5	1.35	0.1	1.85	0.2	1.35	0.1	1.35	0.2	1.35	0.1	1.35	0.25	0.25	0.01	0.9	0.15	0.9	0.05	2.3	0.35	0.45	0.05
6	1.62	0.2	2.22	0.15	1.62	0.1	1.62	0.15	1.62	0.1	1.62	0.2	0.3	0.01	1.08	0.15	1.08	0.05	2.76	0.4	0.54	0.05
7	1.89	0.2	2.59	0.25	1.89	0.1	1.89	0.15	1.89	0.15	1.89	0.2	0.35	0.01	1.26	0.15	1.26	0.05	3.22	0.35	0.63	0.05
8	2.16	0.15	2.96	0.25	2.16	0.1	2.16	0.1	2.16	0.15	2.16	0.1	0.4	0.01	1.44	0.1	1.44	0.05	3.68	0.2	0.72	0.05
9	2.43	0.1	3.33	0.1	2.43	0.05	2.43	0.05	2.43	0.05	2.43	0.05	0.45	0.01	1.62	0.05	1.62	0.5	4.14	0.05	0.81	0.01
Right Bank	2.7	0	3.7	0	2.7	0	2.7	5	2.7	0	2.7	0	0.5	0	1.8	0	1.8	0	4.6	0	0.9	0
Feature Type	run		run		run		run		run		pool		run		run		run		pool		run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 10.04.07

WBID # 470
 Site # 2

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time:	9.19.07 10:15	Site Location Description (e.g. road crossing):	
Personnel:	Drew Dodson, Gilisa Gould	downstream CR 71	
Current Weather Conditions:	hazy not blue sky	Facility Name:	CGC Ruckman Farms
Weather conditions for the past 10 days:	no precip.	Permit Number:	MO0118451
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>			

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, in Meters)			
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:
	0382199	4467514	15 feet
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:
	0382242	4467614	21 feet

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
49	downstream	50	upstream		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 470
Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep Slopes	<input checked="" type="checkbox"/> Other:
Comments: forest, cropground, I hear cows				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: None				

Substrate:

% Cobble	% Gravel 70	% Sand	% Silt	30	% Bedrock
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Aquatic Vegetation:

banks vegetated except for flood/high water erosion; 5 arrowhead waterplants; other common veg.; forest

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	Other:

WBID # 470
Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
not located in site	120 yds from rd. xing	6 yds.	11 yds.	0.8	>1.0

Comments: (Please record any additional comments here.)

narrow channel, lots of silt, looks recently flooded (this year). Only see animal trax, unstable banks, fallen trees

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: gilisa gould Date of Survey: 9.19.07

Organization: SES, Inc. Position: field team leader

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>470</u> Site #: <u>2</u> Estimated Channel Incision: <u>3.2</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0382199</u> UTM Y: <u>4467514</u> +/- <u>4.6</u> (meters) 11 UTM X: <u>0382271</u> UTM Y: <u>4468940</u> +/- <u>6.4</u> (meters) Average Stream Width: <u>1.4</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Drew Dodson, Gilisa Gould</u>	Dissolved Oxygen Date: <u>9.19.07</u> Time: <u>10:15</u> Dissolved Oxygen: <u>6.8</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>18.1</u> (°C)
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Transect Cross-Section

Station	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.37	0.01	0.37	0.01	0.37	0.05	0.46	0.01	0.46	0.01	0.27	0.01	0.46	0.05	0.27	0.01	0.05	0.05	0.18	0.05	0.37	0.05
2	0.74	0.05	0.74	0.5	0.74	0.05	0.92	0.01	0.92	0.05	0.54	0.05	0.92	0	0.54	0.05	0.1	0.05	0.36	0	0.74	0.05
3	1.11	0	1.11	0.1	1.11	0.05	1.38	0.05	1.38	0.05	0.81	0	1.38	0	0.81	0.05	0.15	0.1	0.54	0	1.11	0.1
4	1.48	0	1.48	0.1	1.48	0.1	1.84	0.05	1.84	0	1.08	0	1.84	0	1.08	0.05	0.2	0.05	0.72	0	1.48	0.1
5	1.85	0	1.85	0.1	1.85	0.1	2.3	0.01	2.3	0	1.35	0	2.3	0	1.35	0.05	0.25	0.15	0.9	0	1.85	0.1
6	2.22	0	2.22	0.1	2.22	0.1	2.76	0.05	2.76	0	1.62	0	2.76	0	1.62	0.1	0.3	0.1	1.08	0	2.22	0.05
7	2.59	0	2.59	0.05	2.59	0.1	3.22	0.05	3.22	0	1.89	0	3.22	0	1.89	0.1	0.35	0.05	1.26	0	2.59	0.05
8	2.96	0	2.96	0.05	2.96	0.1	3.68	0.05	3.68	0	2.16	0	3.68	0	2.16	0.01	0.4	0.05	1.44	0	2.96	0.05
9	3.33	0.01	3.33	0.05	3.33	0.05	4.14	0.01	4.14	0.01	2.43	0.01	4.14	0.1	2.43	0.01	0.45	0.01	1.62	0.01	3.33	0.05
Right Bank	3.7	0	3.7	0	3.7	0	4.6	5	4.6	0	2.7	0	4.6	0	2.7	0	0.5	0	1.8	0	3.7	0
Feature Type (riffle, run, or pool)	run		run		run		run		run		run		run		run		run		run		run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 10.04.07

WBID # 470
 Site # 3

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 9.19.07 12:10	Site Location Description (e.g. road crossing):
Personnel: Drew Dodson, Gilisa Gould	upstream CR 71
Current Weather Conditions: clear	Facility Name: CGC Ruckman Farms
Weather conditions for the past 10 days: no precip.	Permit Number: MO0118451
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, In Meters)			
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:
	0382310	4468982	23 feet
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:
	0382271	4468940	39 feet

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
51	upstream	52	downstream		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 470
Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep Slopes	<input checked="" type="checkbox"/> Other:
Comments: forest, cropground, I smell a hog farm				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: None				

Substrate:

% Cobble	% Gravel	10	% Sand	% Silt	90	% Mud/Clay	% Bedrock
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Aquatic Vegetation:

vegetated along banks to water's edge

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Other:
					pollen?

WBID # 470
Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

very narrow channel, very "muddy", our feet sink in it almost a foot deep. Lots of vegetation on banks, fallen trees

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: _____gilisa gould_____ Date of Survey: __9.19.07_____

Organization: _____SES, Inc._____ Position: __field team leader_____

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>470</u> Site #: <u>3</u> Estimated Channel Incision: <u>0</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0382310</u> UTM Y: <u>4468982</u> +/- <u>7.0</u> (meters) 11 UTM X: <u>0382271</u> UTM Y: <u>4468940</u> +/- <u>11.9</u> (meters) Average Stream Width: <u>3.3</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Drew Dodson, Gilisa Gould</u>														Dissolved Oxygen					
														Date: <u>9.19.07</u> Time: <u>12:10</u>					
														Dissolved Oxygen: <u>6.5</u> (mg/L)					
														Dissolved Oxygen: _____ (% sat)					
														Specific Cond: _____ (µS/cm)					
														Water Temperature: <u>18.3</u> (°C)					

Transect Cross-Section																						
	01		02		03		04		05		06		07		08		09		10		11	
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.37	0.05	0.37	0.05	0.37	0.05	0.46	0.05	0.46	0.05	0.27	0.05	0.46	0.05	0.27	0.01	0.05	0.01	0.18	0.01	0.37	0.05
2	0.74	0.05	0.74	0.1	0.74	0.2	0.92	0.1	0.92	0.1	0.54	0.1	0.92	0.01	0.54	0.05	0.1	0.01	0.36	0.05	0.74	0.05
3	1.11	0.05	1.11	0.1	1.11	0.25	1.38	0.15	1.38	0.2	0.81	0.15	1.38	0.01	0.81	0.05	0.15	0.01	0.54	0.05	1.11	0.1
4	1.48	0.05	1.48	0.2	1.48	0.25	1.84	0.25	1.84	0.2	1.08	0.2	1.84	0.05	1.08	0.05	0.2	0.01	0.72	0.05	1.48	0.1
5	1.85	0.1	1.85	0.2	1.85	0.2	2.3	0.3	2.3	0.2	1.35	0.1	2.3	0.1	1.35	0.1	0.25	0.05	0.9	0.01	1.85	0.1
6	2.22	0.1	2.22	0.15	2.22	0.2	2.76	0.25	2.76	0.15	1.62	0.1	2.76	0.05	1.62	0.05	0.3	0.05	1.08	0.01	2.22	0.1
7	2.59	0.1	2.59	0.1	2.59	0.15	3.22	0.2	3.22	0.1	1.89	0.1	3.22	0.1	1.89	0.05	0.35	0.05	1.26	0.05	2.59	0.15
8	2.96	0.1	2.96	0.1	2.96	0.1	3.68	0.1	3.68	0.1	2.16	0.05	3.68	0.1	2.16	0.05	0.4	0.05	1.44	0.01	2.96	0.15
9	3.33	0.05	3.33	0.05	3.33	0.05	4.14	0.05	4.14	0.01	2.43	0.01	4.14	0.1	2.43	0.01	0.45	0.01	1.62	0.01	3.33	0.05
Right Bank	3.7	0	3.7	0	3.7	0	4.6	5	4.6	0	2.7	0	4.6	0	2.7	0	0.5	0	1.8	0	3.7	0
Feature Type	run		run		run		run		run		run		run		run		run		run		run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 10.04.07

WBID# 0470



Site# 1 Photo ID# 45, Downstream



Site# 1 Photo ID# 46, Upstream



Site# 2 Photo ID# 49, Downstream



Site# 2 Photo ID# 50, Upstream

WBID# 0470



Site# 3 Photo ID# 51, Upstream



Site# 3 Photo ID# 52, Downstream